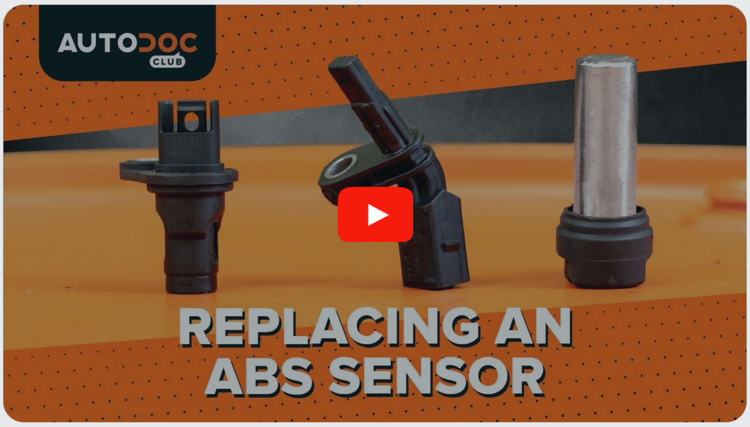
AUTODOC CLUB

How to change ABS sensor on a car – replacement tutorial

VIDEO TUTORIAL



THINGS YOU MAY NEED:



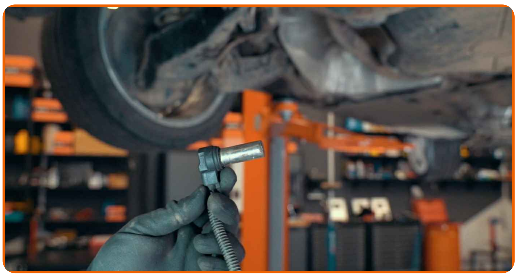
- a new ABS sensor
- a set of suitable tools
- universal spray cleaner and a wire brush
- WD-40 spray
- electronic spray
- long reach pliers or adjustable pliers
- torque wrench

BUY TOOLS

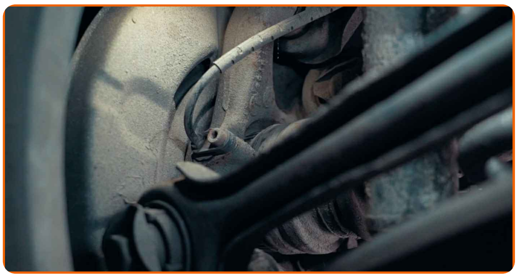
Please note!

- The wheel speed sensors are a part of the vehicle's anti-lock braking system, ABS
- The system helps to correctly distribute the braking force to each of the wheels depending on the road conditions
- The ABS can include other systems such as the anti-slip regulation system and the stability control system

1 ABS sensors are usually installed near the wheel rotation axes



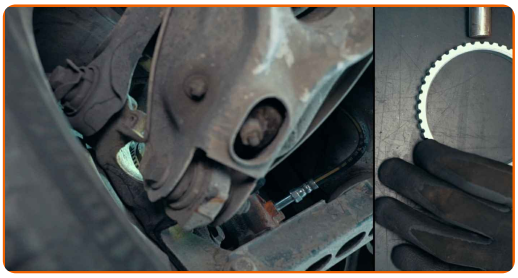
2 They read the rotation speed of each wheel and send this data to the ECU



3 If any one of the sensors is faulty, the system switches to the emergency mode



4 The ABS sensor reads information from a magnetic or toothed ring



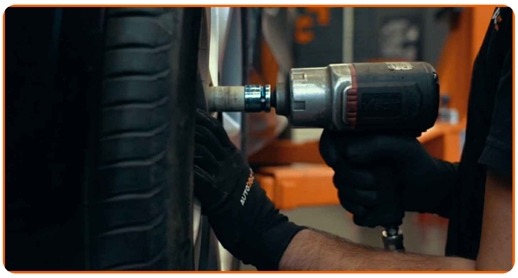
Depending on the car design it can be located:

- on the CV joint housing
- or in the wheel bearing
- or on the brake disc

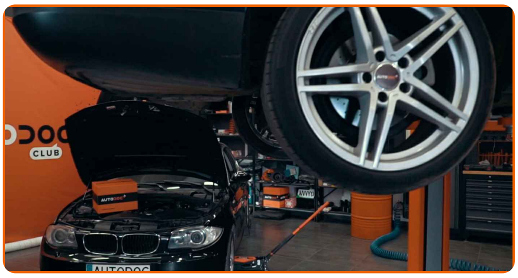
5 You can determine which ABS sensor is faulty by scanning the car's computer



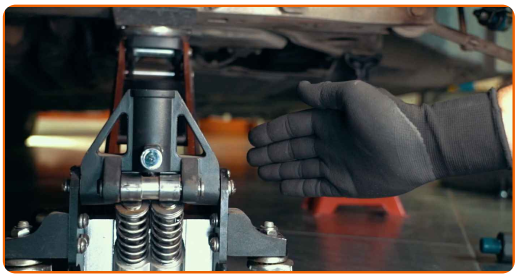
6 In most cases, you should remove the wheel to access the sensor



7 To do this, first raise the vehicle



8 Use a car lift or a jack



Important!

- When using a jack you also need to use jack stands

9 In some cars you can replace an ABS sensor without removing the wheel. In this case, you just need an inspection pit or ramp



10 Clean the area you’re working on and the connectors



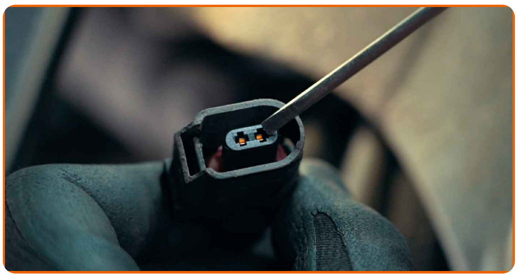
Please note!

- Depending on its design, the sensor:
- may have a connector
- or be a one-piece element with a section of wire that is attached to the car body

11 Remove the ABS sensor connector



12 Inspect the terminals for damage and corrosion



13 The sensor’s metal housing might be severely corroded



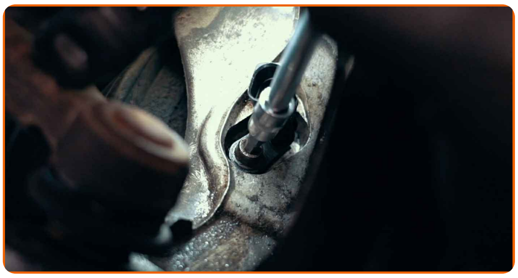
14 Be sure to clean it thoroughly to make it easier to remove



Important!

- In some cases, additional tools may be needed to replace the sensor

15 Unscrew the ABS sensor fastener



16 To remove the sensor, rock it from side to side in its seat



Be careful!

- Do not apply excessive force to avoid damaging the sensor body

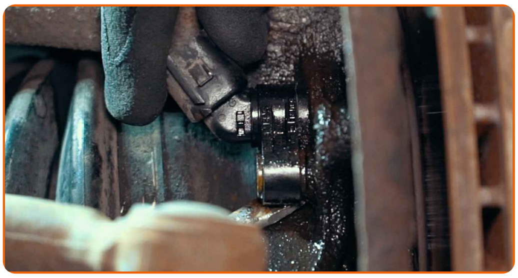
17 Remove the sensor from its mounting seat



18 Remove the sensor wiring harness if necessary



19 In some cases, corrosion can make removing the sensor difficult



AUTODOC experts recommend:

- To avoid this in the future, apply some grease to the sensor's mounting surface

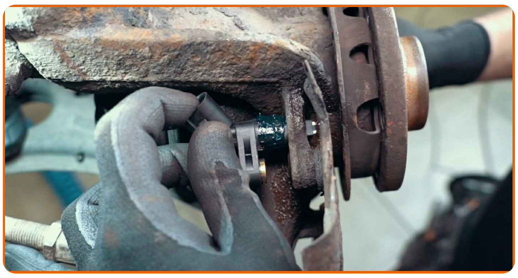
20 Clean the sensor's mounting seat



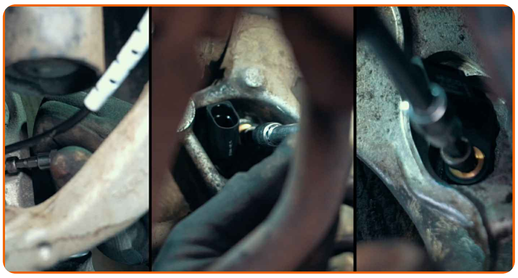
21 Then lubricate the mounting surface on the new sensor



22 Install the new sensor



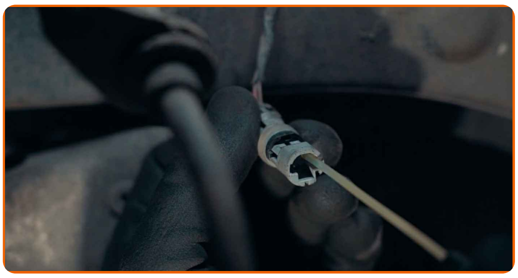
23 Screw in the ABS sensor fastener



24 Tighten the fasteners with a torque wrench to the manufacturer's recommended torque



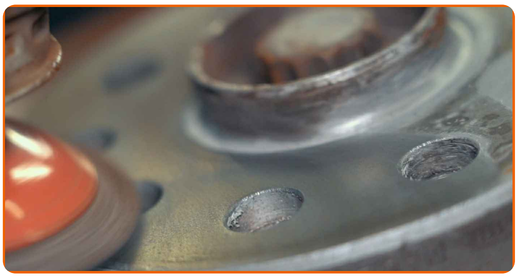
25 Treat the connectors with the electrical contact cleaner spray



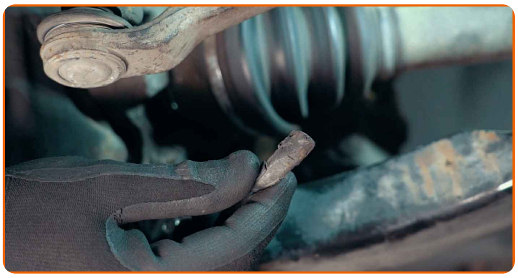
26 Attach the connector and secure the sensor wiring harness



27 Clean the brake disc surface where it will contact the wheel rim and treat it with an anti-corrosion agent

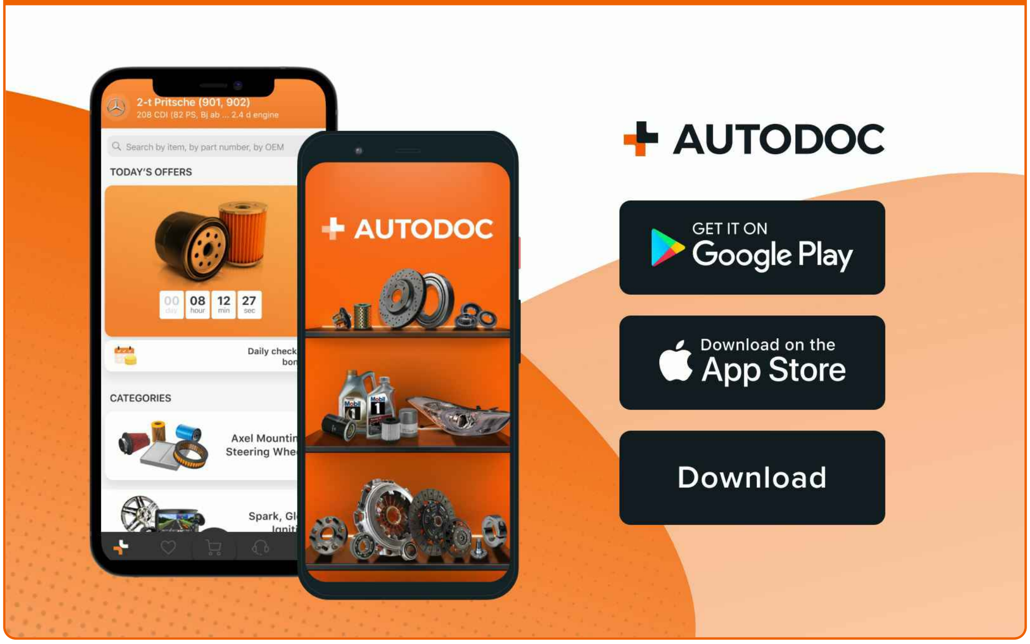


28 Removing sensors secured with a clip is a straightforward process. However, this fastening method is not always reliable



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ABS SENSOR: A WIDE SELECTION

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